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imagery analysis report

SS-X-24 Missile Component Sizing (S)



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SS-X-24 MISSILE COMPONENT SIZING (S)

OVERVIEW

1. Analysis indicates that the SS-X-24 IC	CBM missile canister is	s about	in diameter, the
payload is about in diameter, and	I the airframe may be	about	in diameter. This
information is derived from detailed analysis	of probable SS-X-24	missile training co	omponents at the
recently identified silo loading and		at Plesetsk Missile	•
Center East Support Facility	Figure 1). Historically,		
canister simulators for crew training. These cor	nponents typically are o	observ <u>ed first at te</u> s	st ranges and later
at deployed complexes and are used during bo			and
mating crew training exercises. In the past, the			
have been almost identical to those of the			
similarity of training components for systems			
training components are compared to those	associated with the	SS-18 Mod-2 ICB <i>i</i>	M. (TSR)

DISCUSSION

areas have been recently identified in the separately secured SS-X-24 section of the Plesetsk East Support Facility (Figure 2). The silo loading training area, constructed between April 1984 and January 1985, contains a paved apron with a stub training silo and a high-bay, drive-through maintenance/support building. A probable canister extension load simulator was initially identified in this facility in April 1985. (TSR)

3. constructed between late 1983 and early 1984, is in a fenced area behind the 50-meter-deep, five-bay garage (Figure 3). This area also has a stub training silo and provides open storage of training components. Payload-related training components were first delivered to this facility in mid-1982, about the same time that a type IV warhead transporter—which at Plesetsk is associated only with the SS-X-24—was identified at the rangehead. However,

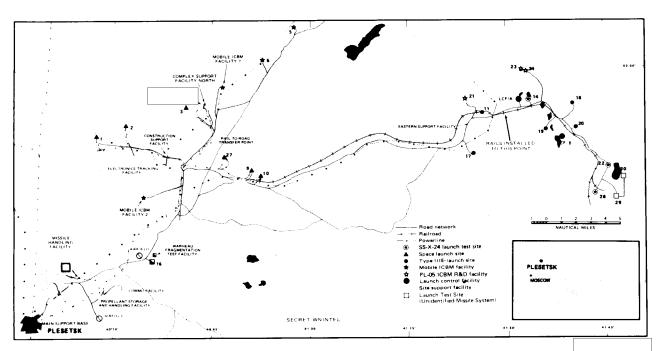


FIGURE 1. LOCATION OF EAST SUPPORT FACILITY AT PLESETSK MSC

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3. 323	NET NOT	25 X 1
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because of poor image interpretability, these com-	least long.) It consists of two round	ded 25X 1
ponents were not identified until April 1985. Pay-	end plates about across at their ma	axi- 25 X 1
load-related training components identified through include a probable payload	mum widths and about thick connect by two or more rods (inset sketch on Figure 4).	
simulator, a probable component shipping canis-	top of each end plate is flat and about	25X1
ter, and a probable payload-related crate. (TSR)	wide. In addition, two fittings, each at least meter long, project from the exterior face of o	25X1
	plate. Similar fittings, which would increase	the
SS-X-24 Missile Canister Diameter	overall length of the probable simulator, are pro- ably attached to the end of the other plate	
4. An SS-X-24 probable canister extension	could not be seen because of image obliqu	uity.
load simulator was at the silo loading training area on Figure 4). Its resemblance to the	Reanalysis of a previously reported probable SS 24 canister extension, observed in the East Supp	
long SS-18 canister extension load sim-	Facility on Figure 5) indicates that	at it 25X1
ulator can be seen in the figure. The SS-X-24 probable canister extension simulator is about	was also about in diameter but ab- long. This probable canister extens	
ters wide, which indicates that the SS-X-24 canister	initially had been reported as being about	25X1
is aboutin diameter. (Image obliquity and shadows precluded determining the overall	ters long andin diameter. It should noted, however, that a missile canister for the	
length of the probable load simulator, but it is at	X-24 still has not been identified. (TSR)	
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SS-X-24 Payload Diameter	component shipping canister and a probable pay-	
5. An SS-X-24 probable payload simulator,	load-related crate—also were identified on (Figure 6). The component canister is about	25X
which resembles the SS-18 Mod-2 payload simulation,	meters long and about in diameter. The	25X 25X
tor, was at the (Cigure 6). This probable payload simulations	crate has a chamfered roof and an overall length,	25X
(Figure 6). This probable payload simulator is about in diameter, indicating	width, and height of about and over respectively (image obliquity	25) 25)
that the SS-X-24 payload is about in	and shadows precluded an accurate determination	25 X
diameter, and abouttall. The probable simulator consists of a cylinder with a band about	of height). The chamfered roof is about wide, and two rectangular projections on the roof,	25X
from the base and a cylindrical object on	each about a quarter of the way in from the ends,	25X
the top. There are two fittings, or possibly four	may serve as attachment points for a crane. The	
fittings at 90-degree intervals, on the top of the probable simulator. The top surface of the proba-	components shipped in the canister and crate have not been identified. (TSR)	
ble simulator is depressed, and a probably circular	is been recitifed (1511)	
position or plate is visible in the depression. The circular plate may be for the attachment of an	Analyst's Comments	
additional cylindrical piece to the probable simula-	·	
tor (like the one on the SS-18 Mod-2 payload	SS-X-24 Airframe Diameter	
simulator), which could increase its overall height. (ISR)	7. Using the dimensional similarities of training components and the operational components	
	ing components and the operational components they represent, as well as previous estimates of	
Miscellaneous Payload-Related	airframe diameters based on missile canister diam-	
Components	eters, a diameter for the SS-X-24 airframe can be estimated. The diameter of the probable SS-X-24	
6. Two additional SS-X-24 probable pay-	payload simulator is about Therefore,	25X1
load-related components—a probable payload	the base diameter of the shroud that would en-	
	_	25X
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close a payload about this size would pabout This suggests that the of the SS-X-24 airframe is probably abouters. This conclusion is further support comparison of the recently derived SS with data associated with the SS-18.	e diameter out orted by a -X-24 data	diameter, a diff tracting	nissile canister about [erence of about [from the asse 4 canister would	Sub-
	REFERE	ence		
All relevant satellite imagery acquired for	rom May 1977 t	through	was used in the	preparation of this
report. (S/WN) Comments and queries regarding this read Space Division, Imagery Exploitation	eport are welcor Group, NPIC,	me. They may be di	rected to	Soviet Missile
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